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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KN/W.No.14/CSR-06/078c/CEMENT/2016-17 Date: 30.06.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY		**Mr. K. Nagaraj,** Contractor, Bangalore.
*NAME OF THE WORK	:	Improvements to roads and drains at 3rd cross (Left Side) 8th main road Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/419/2016-17 Dated: 28.06.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	28.06.2016
PERIOD OF TESTING	:	28.06.2016 to 30.06.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Chief Executive Officer

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Job No.: CTCE/BBMP/KN/W.No.14/CSR-06/078c/SAND-Gradation/2016-17 : 30.06.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

* Agency : **Mr. K. Nagaraj,** Contractor, Bangalore.

* Name of Work : Improvements to roads and drains at 3rd cross (Left Side) 8th main road Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.

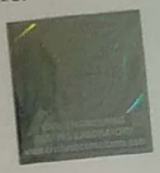
Reference : BBMP/DZ/AEE/TDSD/PR/419/2016-17 Dated: 28.06.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 28.06.2016

Date of Testing : 30.06.2016



Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.50	90-100	90-100	90-100	95-100
2.36	75.00	60-95	75-100	85-100	95-100
1.18	53.80	30-70	55-90	75-100	90-100
600 Micron	25.30	15-34	35-59	60-79	80-100
300 Micron	11.70	5-20	8-30	12-40	15-50
150 Micron	4.50	0-10	0-10	0-10	0-15

*Information is furnished by the Customer/Representative.

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Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/KN/W.No.14/CSR-06/078c/AGG/GR/2016-17 : 30.06.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K. Nagaraj,** Contractor, Bangalore.
* Name of Work	: Improvements to roads and drains at 3rd cross (Left Side) 8th main road Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/419/2016-17 Dated: 28.06.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 28.06.2016
Date of Testing	: 30.06.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.30	95-100	85-100
20	37.80	30-70	0-20
10	12.80	10-35	0-5
4.75	3.20	0-5	-

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/KN/W.No.14/CSR-06/078c/CC Solid Block/2016-17 : 05.07.2016

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

* Agency : **Mr. K. Nagaraj,** Contractor, Bangalore.

* Name of the Work : Improvements to roads and drains at 3rd cross (Left Side) 8th main road Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/419/2016-17 Dated: 28.06.2016

Sample Received on : 01.07.2016

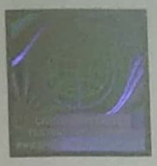
Date of Testing : 05.07.2016

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	36.25	260.5	3.26	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	34.12	259.7	3.25	
3	Block 3	35.82	260.3	3.25	
4	Block 4	34.57	258.7	3.23	
5	Block 5	36.23	259.4	3.24	
6	Block 6	35.16	260.1	3.25	
7	Block 7	35.82	261.8	3.27	
8	Block 8	34.78	259.7	3.25	

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Job No.: CTCE/BBMP/KN/W.No.14/CSR-06/078c/CUBE/2016-17 15.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*Agency : **Mr. K. Nagaraj,** Contractor, Bangalore.

*Name of the work : Improvements to roads and drains at 3rd cross (Left Side) 8th main road Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/419/2016-17 Dated: 28.06.2016

*Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 15.08.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.07.2016	15.08.2016	8.154	360.5	16.02
2	18.07.2016	15.08.2016	8.269	372.4	16.55
3	18.07.2016	15.08.2016	8.375	386.5	17.18

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KN/W.No.14/CSR-06/078c/Pre Slab/2016-17 16.07.2016

TEST REPORT CONCRETE CORE (PRECAST SLAB)

* Name of Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Mr. K. Nagaraj,** Contractor, Bangalore.
* Name of work	:	Improvements to roads and drains at 3rd cross (Left Side) 8th main road Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/419/2016-17 Dated: 28.06.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Precast Slab
Sample Received on	:	11.07.2016
Date of Testing	:	16.07.2016
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.396	2552.93	1.58	0.955	25.85	13.17	14.22	14.89	18.62
2	50.00	80.00	0.402	2559.21	1.60	0.957	26.35	13.42	14.49	13.87	17.33
3	50.00	81.00	0.411	2584.20	1.62	0.959	28.40	14.46	15.62	14.98	18.73

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